

SEQUENCE LISTING

<110> Scott, Kieran

5 <120> Method of inhibiting prostate cancer cell proliferation

<130> 501543

<150> PS2826

10 <151> 2002-06-07

<160> 4

<170> PatentIn version 3.1

15 <210> 1

<211> 997

<212> DNA

<213> Homo sapiens

20 <400> 1

gaaggaaaaa gagcaacaga tccagggagc attcacctgc cctgtctcca aacagccttg
60

25 tgcctcacct accccaacc tcccagaggg agcagctatt taaggggagc aggagtgcag
120

aacaaacaag acggcctggg gatacaactc tggagtcctc tgagagagcc accaaggagg
180

30 agcaggggag cgacggccgg ggcagaagtt gagaccaccc agcagaggag ctaggccagt
240

ccatctgcat ttgtcaccca agaactctta ccatgaagac cctcctactg ttggcagtga
35 300

tcatgatctt tggcctactg caggcccatg ggaatttggg gaatttccac agaatgatca
360

40 agttgacgac aggaaaggaa gccgcactca gttatggctt ctacgggctgc cactgtggcg
420

tgggtggcag aggatcccc aaggatgcaa cggatcgctg ctgtgtcact catgactgtt
480

45 gctacaaacg tctggagaaa cgtggatgtg gcaccaaatt tctgagctac aagtttagca
540

actcggggag cagaatcacc tgtgcaaac aggactcctg cagaagtcaa ctgtgtgagt
50 600

gtgataaggc tgctgccacc tgttttgcta gaaacaagac gacctacaat aaaaagtacc
660

55 agtactattc caataaacac tgcagaggga gcaccctcg ttgctgagtc ccctcttccc
720

5 tggaacctt ccacccagtg ctgaatttcc ctctctcata ccttccctcc ctaccctaac
 780
 caagttcctt ggccatgcag aaagcatccc tcacccatcc tagaggccag gcaggagccc
 840
 10 ttctataccc acccagaatg agacatccag cagatttcca gccttctact gctctcctcc
 900
 acctcaactc cgtgcttaac caaagaagct gtactccggg gggctctctt tgaataaagc
 960
 aattagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa
 997
 15 <210> 2
 <211> 2875
 <212> DNA
 20 <213> Homo sapiens
 <400> 2
 gaattctccg gagctgaaaa aggatcctga ctgaaagcta gaggcattga ggagcctgaa
 60
 25 gatttctcagg ttttaaagac gctagagtgc caaagaagac tttgaagtgt gaaaacattt
 120
 cctgtaattg aaaccaaagt gtcatttata gatccttacc agcacattat agtggagcac
 180
 30 cagtattccc acaagtttac ggtagtggtg ttacgtgcc ccaaagtgac aaagggggcc
 240
 35 tttggtgaca tgcttgatac tccagatccc tatgtggaac tttttatctc tacaaccctt
 300
 gacagcagga agagaacaag acatttcaat aatgacataa accctgtgtg gaatgagacc
 360
 40 tttgaattta ttttgatcc taatcaggaa aatgttttgg agattacgtt aatggatgcc
 420
 aattatgtca tggatgaaac tctagggaca gcaacattta ctgtatcttc tatgaagggt
 480
 45 ggagaaaaga aagaagttcc ttttattttc aaccaagtca ctgaaatggt tctagaaatg
 540
 50 tctcttgaag tttgctcatg cccagacctt cgatttagta tggctctgtg tgatcaggag
 600
 aagactttca gacaacagag aaaagaacac ataagggaga gcatgaagaa actcttgggt
 660
 55 ccaaagaata gtgaaggatt gcattctgca cgtgatgtgc ctgtggtagc catattgggt
 720

tcaggtgggg gtttccgagc catggtggga ttctctggtg tgatgaaggc attatacgaa
780

5 tcaggaattc tggattgtgc tacctacgtt gctggtcttt ctggctccac ctggtatatg
840

tcaaccttgt attctcacc cgtattttcca gagaaagggc cagaggagat taatgaagaa
900

10 ctaatgaaaa atgttagcca caatcccctt ttactttctca caccacagaa agttaaaga
960

tatgttgagt ctttatggaa gaagaaaagc tctggacaac ctgtcacctt tactgacatc
1020

15 tttgggatgt taataggaga aacactaatt cataatagaa tgaatactac tctgagcagt
1080

20 ttgaaggaaa aagttaatac tgcacaatgc cttttacctc ttttcacctg tcttcatgtc
1140

aaacctgacg tttcagagct gatgtttgca gattgggttg aatttagtcc atacgaaatt
1200

25 ggcatggcta aatatggtac ttttatggct cccgacttat ttggaagcaa attttttatg
1260

ggaacagtcg ttaagaagta tgaagaaaac cccttgcat tcttaatggg tgtctggggc
1320

30 agtgcctttt ccatattgtt caacagagtt ttgggcgttt ctggttcaca aagcagaggc
1380

35 tccacaatgg aggaagaatt agaaaatatt accacaaagc atattgtgag taatgatagc
1440

tcggacagtg atgatgaatc acacgaacc aaaggcactg aaaatgaaga tgctggaagt
1500

40 gactatcaaa gtgataatca agcaagttgg attcatcgta tgataatggc cttggtgagt
1560

gattcagctt tattcaatac cagagaagga cgtgctggga aggtacacaa cttcatgctg
1620

45 ggcttgaatc tcaatacatc ttatccactg tctcctttga gtgactttgc cacacaggac
1680

50 tcctttgatg atgatgaact ggatgcagct gtagcagatc ctgatgaatt tgagcgaata
1740

tatgagcctc tggatgtcaa aagtaaaaag attcatgtag tggacagtgg gctcacattt
1800

55 aacctgccgt atcccttgat actgagacct cagagagggg ttgatctcat aatctccttt
1860

gacttttctg caaggccaag tgactctagt cctccgttca aggaacttct acttgcagaa
 1920

5 aagtgggcta aaatgaacaa gctccccttt ccaaagattg atccttatgt gtttgatcgg
 1980

gaagggctga aggagtgcta tgtcttttaa cccaagaatc ctgatatgga gaaagattgc
 2040

10 ccaaccatca tccactttgt tctggccaac atcaacttca gaaagtacaa ggctccaggt
 2100

gttccaaggg aaactgagga agagaaagaa atcgctgact ttgatatttt tgatgaccca
 2160

15 gaatcaccat tttcaacctt caattttcaa tatccaaatc aagcattcaa aagactacat
 2220

gatcttatgc acttcaatac tctgaacaac attgatgtga taaaagaagc catgggtgaa
 2280

agcattgaat atagaagaca gaatccatct cgttgctctg tttcccttag taatgttgag
 2340

25 gcaagaagat ttttcaacaa ggagtttcta agtaaaccce aagcatagtt catgtactgg
 2400

aaatggcagc agtttctgat gctgaggcag tttgcaatcc catgacaact ggatttataa
 2460

30 gtacagtaca gatagtcgta ctgatcatga gagactggct gataactcaa gttgcagtta
 2520

cttagctgca tgagaataat actattataa gttagggtgac aaatgatggt gattatgtaa
 2580

ggatatactt agctacattt tcagtcagta tgaacttcct gatacaaatg tagggatata
 2640

40 tactgtattt ttaaacattt ctcaccaact ttcttatgtg tgttcttttt aaaaattttt
 2700

tttcttttaa aatatttaac agttcaatct caataagacc tcgcattatg tatgaatggt
 2760

attcactgac tagattttatt cataccatga gacaacacta tttttattta tatatgcata
 2820

50 tatatacata catgaaataa atacatcaat ataaaaataa aaaaaaacgg aattc
 2875

55 <210> 3
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 3

5 Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile Phe Gly Leu Leu
 1 5 10 15
 10 Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met Ile Lys Leu Thr
 20 25 30
 Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr Gly Cys His Cys
 35 40 45
 15 Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr Asp Arg Cys Cys
 50 55 60
 20 Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys Arg Gly Cys Gly
 65 70 75 80
 25 Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly Ser Arg Ile Thr
 85 90 95
 Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys Glu Cys Asp Lys
 100 105 110
 30 Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr Tyr Asn Lys Lys
 115 120 125
 35 Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser Thr Pro Arg Cys
 130 135 140
 40 <210> 4
 <211> 749
 <212> PRT
 <213> Homo sapiens
 45 <400> 4
 Met Ser Phe Ile Asp Pro Tyr Gln His Ile Ile Val Glu His Gln Tyr
 1 5 10 15
 50 Ser His Lys Phe Thr Val Val Val Leu Arg Ala Thr Lys Val Thr Lys
 20 25 30
 55 Gly Ala Phe Gly Asp Met Leu Asp Thr Pro Asp Pro Tyr Val Glu Leu
 35 40 45

	Phe	Ile	Ser	Thr	Thr	Pro	Asp	Ser	Arg	Lys	Arg	Thr	Arg	His	Phe	Asn	
	50						55					60					
5	Asn	Asp	Ile	Asn	Pro	Val	Trp	Asn	Glu	Thr	Phe	Glu	Phe	Ile	Leu	Asp	
	65					70					75					80	
10	Pro	Asn	Gln	Glu	Asn	Val	Leu	Glu	Ile	Thr	Leu	Met	Asp	Ala	Asn	Tyr	
					85					90					95		
15	Val	Met	Asp	Glu	Thr	Leu	Gly	Thr	Ala	Thr	Phe	Thr	Val	Ser	Ser	Met	
				100					105					110			
20	Lys	Val	Gly	Glu	Lys	Lys	Glu	Val	Pro	Phe	Ile	Phe	Asn	Gln	Val	Thr	
			115					120					125				
	Glu	Met	Val	Leu	Glu	Met	Ser	Leu	Glu	Val	Cys	Ser	Cys	Pro	Asp	Leu	
	130						135					140					
25	Arg	Phe	Ser	Met	Ala	Leu	Cys	Asp	Gln	Glu	Lys	Thr	Phe	Arg	Gln	Gln	
	145					150					155					160	
30	Arg	Lys	Glu	His	Ile	Arg	Glu	Ser	Met	Lys	Lys	Leu	Leu	Gly	Pro	Lys	
					165					170					175		
35	Asn	Ser	Glu	Gly	Leu	His	Ser	Ala	Arg	Asp	Val	Pro	Val	Val	Ala	Ile	
				180					185					190			
40	Leu	Gly	Ser	Gly	Gly	Gly	Phe	Arg	Ala	Met	Val	Gly	Phe	Ser	Gly	Val	
			195					200					205				
	Met	Lys	Ala	Leu	Tyr	Glu	Ser	Gly	Ile	Leu	Asp	Cys	Ala	Thr	Tyr	Val	
	210						215					220					
45	Ala	Gly	Leu	Ser	Gly	Ser	Thr	Trp	Tyr	Met	Ser	Thr	Leu	Tyr	Ser	His	
	225					230					235					240	
50	Pro	Asp	Phe	Pro	Glu	Lys	Gly	Pro	Glu	Glu	Ile	Asn	Glu	Glu	Leu	Met	
					245					250					255		
55	Lys	Asn	Val	Ser	His	Asn	Pro	Leu	Leu	Leu	Leu	Thr	Pro	Gln	Lys	Val	
				260					265					270			

	Lys	Arg	Tyr	Val	Glu	Ser	Leu	Trp	Lys	Lys	Lys	Ser	Ser	Gly	Gln	Pro	
			275					280					285				
5	Val	Thr	Phe	Thr	Asp	Ile	Phe	Gly	Met	Leu	Ile	Gly	Glu	Thr	Leu	Ile	
		290					295					300					
10	His	Asn	Arg	Met	Asn	Thr	Thr	Leu	Ser	Ser	Leu	Lys	Glu	Lys	Val	Asn	
	305					310					315					320	
15	Thr	Ala	Gln	Cys	Pro	Leu	Pro	Leu	Phe	Thr	Cys	Leu	His	Val	Lys	Pro	
					325					330					335		
20	Asp	Val	Ser	Glu	Leu	Met	Phe	Ala	Asp	Trp	Val	Glu	Phe	Ser	Pro	Tyr	
				340					345					350			
25	Glu	Ile	Gly	Met	Ala	Lys	Tyr	Gly	Thr	Phe	Met	Ala	Pro	Asp	Leu	Phe	
			355					360					365				
30	Gly	Ser	Lys	Phe	Phe	Met	Gly	Thr	Val	Val	Lys	Lys	Tyr	Glu	Glu	Asn	
		370					375					380					
35	Pro	Leu	His	Phe	Leu	Met	Gly	Val	Trp	Gly	Ser	Ala	Phe	Ser	Ile	Leu	
	385					390					395					400	
40	Phe	Asn	Arg	Val	Leu	Gly	Val	Ser	Gly	Ser	Gln	Ser	Arg	Gly	Ser	Thr	
				405						410					415		
45	Met	Glu	Glu	Glu	Leu	Glu	Asn	Ile	Thr	Thr	Lys	His	Ile	Val	Ser	Asn	
				420					425					430			
50	Asp	Ser	Ser	Asp	Ser	Asp	Asp	Glu	Ser	His	Glu	Pro	Lys	Gly	Thr	Glu	
			435					440					445				
55	Asn	Glu	Asp	Ala	Gly	Ser	Asp	Tyr	Gln	Ser	Asp	Asn	Gln	Ala	Ser	Trp	
		450					455					460					
60	Ile	His	Arg	Met	Ile	Met	Ala	Leu	Val	Ser	Asp	Ser	Ala	Leu	Phe	Asn	
	465					470					475					480	
65	Thr	Arg	Glu	Gly	Arg	Ala	Gly	Lys	Val	His	Asn	Phe	Met	Leu	Gly	Leu	
					485					490					495		
70	Asn	Leu	Asn	Thr	Ser	Tyr	Pro	Leu	Ser	Pro	Leu	Ser	Asp	Phe	Ala	Thr	

	500	505	510
5	Gln Asp Ser Phe Asp Asp Asp Glu Leu Asp Ala Ala Val Ala Asp Pro 515 520 525		
10	Asp Glu Phe Glu Arg Ile Tyr Glu Pro Leu Asp Val Lys Ser Lys Lys 530 535 540		
15	Ile His Val Val Asp Ser Gly Leu Thr Phe Asn Leu Pro Tyr Pro Leu 545 550 555 560		
20	Ile Leu Arg Pro Gln Arg Gly Val Asp Leu Ile Ile Ser Phe Asp Phe 565 570 575		
25	Ser Ala Arg Pro Ser Asp Ser Ser Pro Pro Phe Lys Glu Leu Leu Leu 580 585 590		
30	Ala Glu Lys Trp Ala Lys Met Asn Lys Leu Pro Phe Pro Lys Ile Asp 595 600 605		
35	Pro Tyr Val Phe Asp Arg Glu Gly Leu Lys Glu Cys Tyr Val Phe Lys 610 615 620		
40	Pro Lys Asn Pro Asp Met Glu Lys Asp Cys Pro Thr Ile Ile His Phe 625 630 635 640		
45	Val Leu Ala Asn Ile Asn Phe Arg Lys Tyr Lys Ala Pro Gly Val Pro 645 650 655		
50	Arg Glu Thr Glu Glu Glu Lys Glu Ile Ala Asp Phe Asp Ile Phe Asp 660 665 670		
55	Asp Pro Glu Ser Pro Phe Ser Thr Phe Asn Phe Gln Tyr Pro Asn Gln 675 680 685		
	Ala Phe Lys Arg Leu His Asp Leu Met His Phe Asn Thr Leu Asn Asn 690 695 700		
	Ile Asp Val Ile Lys Glu Ala Met Val Glu Ser Ile Glu Tyr Arg Arg 705 710 715 720		
	Gln Asn Pro Ser Arg Cys Ser Val Ser Leu Ser Asn Val Glu Ala Arg 725 730 735		

Arg Phe Phe Asn Lys Glu Phe Leu Ser Lys Pro Lys Ala
740 745